

FIG. 1A

09/03/2019

1 GGGTGGGTAGAAACTTTGGCTCCCGCGCTATCCACGCCATTGGCATAG
61 GAGGATACTCCGCCGGGATCGGCATTGAATGGAACAGTGCTTGGCCCCG
121 CACCGCCACCATGAAACAAGGCTTACATCGGCAACCTCACGGAGTGTGACCCCCGGCAGA
1 M N K L Y I G N L N E S V T P A D

181 CTTGGAGAAAGTATTGCGGGAGCACAAAGATCTCCTACAGGGCCAGTCTGGTCAAATC
18 L E K V F A E H K I S Y S G Q F L V K S

241 CGGCTACGGCTTCGTTGGATTGCCCCGACGGCACTGGGATGAAGGCCATCGAAACTTT
38 G Y A F V D C P D E H W A M K A I E T F
L _

301 CTCGGGAAAGTAGAAACTGCAAGGAAAACCGTCTAGAGATTGAACACTCAGTCCCAAAAA
58 S G K V E L Q G K R L E I E H S V P K K
_ _

361 ACAAGGAGTCGGAAATAACAGATCCGCAATATCCACCTCAGCTCCGATGGGAAGTGCT
78 Q R S R K I Q I R N I P P Q L R W E V L
_ _

421 AGATAGCCCTGGCTCAGTACGGTACAGTGGAGAACTGTGAGCAACTGAAG
98 D S L L A Q Y G T V E N C E Q V N T E S
_ _

481 TGAGACAGGCCGGTCAACGTCACCTACTCTAACGGAGGCAAGCTATCAT
118 E T L A V V N V T Y S N R E Q T R Q A I M
_ _

541 GAAGCTAAATGCCCATCAACTGGAGAACCATGCCCTGAAGGTCTCCTACATACCTGATGA
138 K L N G H Q L E N H A L K V S Y I P D E

601 GCAGATAACACAAGGTCTGAGAATGGGGCTCGTGGAGGCC
158 Q I T Q G P E N R R G G F G S R G Q P

FIG. 1B

661 CCGGCAAGGGTCCGGCCGAGCAGGAGCCAGGAGCACATCCC
178 R Q G S P V A A G A P A K Q Q P V D I P

721 TCTCCGGCTCCTGGCTACGCAGTATGGCCTATCATGGCAAGGAGGGTGCAC
198 L R L V P T Q Y V G A I I G K E G A T

781 CATCCGAAACATCACAAACAGACCCAGTCCTGAAAGGAGGAATGC
218 I R N I T K Q T Q S K I D V H R K E N A

841 GGGCGCTGGGAGGCCATCAGCGTGCATTCAACCCCTGAAGGCCTCCTGGCTG
238 G A A E K A I S V H S T P E G C S S A C

901 CAAGATGATCTTGGAGATTATGCACAAAGGAGGCCAACCAAGGACACC
258 K M I L E I M H K E A K D T K T A D E V

961 TCCCCTGAAGATCCTGGCTCATAACAACTTCGTCGGCGACTCATGGCAAGGAAGGCCG
278 P L K I L A H N N F V G R L I G K E G R

1021 GAACCTGAAGGAAGGTGGAGGCAGGACACAGAGAAGATCACC
298 N L K K V E Q D T E T K I T I S S L Q D

1081 CCTCACCGCTATAACCCTGAGGACCATCACTGTGAAGGGGCCATTGAGAACTGTTG
318 L T L Y N P E R T I T V K G A I E N C C

1141 CAGGGCCGAGCAGGAGATCATGAAGAAAGTTCGAGGGCTTACGAGAACGACTGGCCGC
338 R A E Q E I M K K V R E A Y E N D V A A

1201 CATGAGGCTTGCAGTCCCACCTCATCCCTGGCTTAACCTGGCTGCTAGGTCTTCCCC
358 M S L Q S H L I P G L N L A A V G L F P

1261 AGCTTCATCCAGCGCTGTCCTCCTCCAGCAGTAGTGTCACTGGGGCTGCTCCCTATAG
378 A S S S A V P P P S S V T G A A P Y S

1321 CTCTTCATGCAGGCTCCGGAGGAGATGGTACAAGTGTTCATCCCCGGCTGT
398 S F M Q A P E Q E M V Q V F I P A Q A V

1381 GGGGCCATCATGGCAAGAACGGGCCAGCACATCAAACACTCTCCGGTTCGCCAGCGC
418 G A I I G K G Q H I K Q L S R F A S A

1441 CTCCATCAAGATTGCTCCACCAAGAACACCTGACTCCAAGTTCGAATGGTCATCAC
438 S I K I A P P E T P D S K V R M V V I T

1501 TGGACCCCCAGGGCTCAGTTCAAGGGAAGAATTATGGCAAACTAAAGAAGA
458 G P P E A Q F K A Q G R I Y G K L K E E

FIG. 1D

1561 GAATTCTTGGCCAAGGAGAAGCTAGAGACCCACATA
478 N F F G P K E E V K L E T H I R V P A S

1621 AGCAGCCGGCGTCATCGCAAAGGCCAAACGGTAATGAGCTGCAGAACATGAC
498 A A G R V I G K G G K T V N E L Q N L T

1681 TGCAGGCTGAGGTGGTAGTGGCAAGAGACCAGACCCCCGGATGAGAACGACCAAGTCATTGT
518 A A E V V V P R D Q T P D E N D Q V I V

1741 TAAGATCATGGACATTCTATGCCAGCCAGATGGCTCAGCGGAAGAGACATCCCT
538 K I I G H F Y A S Q M A Q R K I R D I L

1801 GGCTCAAGTTAAGCAACAGCACCCAGAAGGGACAGAGCAACCTGGCCAGGCACGGAGGAA
558 A Q V K Q Q H Q K G Q S N L A Q A R R K

1861 GTGACCCCCCCCCCTCCTGTCCCCATTGGCTCCAAGATCAGCAGGAGAACACAGAACTGG
578 * *

1921 AGGGGGCGGGTGGAGGGCCGGTGTGTTTCCAGCAGGCCTGAGAATGAGTGGAAATCAG
1981 GGCATTGGCCCTGGCTGGAGATCAGGTTGCACACTGTATGAGAACAAATGTTCCAGTG
2041 AGGAATCCTGATCTCGCCCCAATTGAGCCAGCTGCCACAGCCCACCCCTTGGAAATA
2101 TCACCATGCAATCATGGTTGGATTGTCTTGAAGTTCTCCAG
2161 CCTCCATGGAAGGATGGTCAGATCCAGTGGAAATAAAATTCCCTCAGGT
2221 TTAT

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mCRD-BP
hKOC
hnRNP K
Fibrillarin
Nucleolin
FMRP

R	R	G	G	G	G	G	G	G	G
R	R	G	G	G	R	G	G	R	G
R	R	-	-	G	R	R	R	G	G
P	-	-	-	G	P	-	G	G	G
G	C	P	S	S	P	P	-	-	G
R	G	S	R	G	R	M	G	G	G
R	G	S	R	G	R	R	G	R	R
G	A	D	D	D	R	R	R	R	R
G	D	G	G	G	G	G	G	G	G
F	G	G	G	G	G	G	G	G	G
G	L	G	G	G	G	G	G	G	G
R	R	G	G	G	G	G	G	G	G
R	R	G	G	G	G	G	G	R	R
R	R	G	R	R	G	R	R	R	R
R	R	G	R	R	G	R	R	R	R
R	R	G	R	R	G	R	R	R	R

FIG. 24

Consensus:

G R G G F G R G G G R G G R O

mCRD-BP
hKOC
FMRP
mCRD-BP
hKOC
BEV

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Consensus:

Q U I T T I W O L D E R T I

FIG. 2C-1

mCRD-BP (1)	I	T	K								
mCRD-BP (2)	I	T	E	Q							
mCRD-BP (3)	I	V	L	S	R						
mCRD-BP (4)	I	V	L	Q	T	K					
hKOC (1)	I	R	N	L	I	E	Q				
hKOC (2)	I	T	I	K	Q	N	R				
hKOC (3)	I	T	I	R	N	L	Q				
hKOC (4)	I	T	I	K	Q	N	R				
hnRNPK (1)	I	G	A	T	G	R	N	L	I	S	R
hnRNPK (2)	I	G	E	G	R	H	T	K	Q	L	R
hnRNPK (3)	I	G	K	G	G	A	N	I	Q	A	V
FMRP (1)	I	G	K	G	G	A	N	I	Q	E	D
FMRP (2)	I	G	K	G	G	K	L	I	Q	V	P
Consensus:	I	I	I	I	I	I	I	I	I	I	I
	V	G	L	I	G	K	G	G	V	V	V
	A	V	K	K	K	K	K	K	A	A	A

FIG. 2C-2

mCRD-BP (1)	Q T Q S K - - -	I D V H R K E N A G A A E K A I S V	R I V V L I T
mCRD-BP (2)	D T E T K - - -	I S S L Q D L T P D Q T P D E T P D Q T P D E N D Q V V K I T	I V V L I T
mCRD-BP (3)	F A S A E - - -	I K I A P P E R M V I T V K I T	V V L I T
mCRD-BP (4)	L T Q S K - - -	V V R K E L T P A E E R M V I T V K I T	V V L I T
hkOC (1)	Q T D T K - - -	I T I S P L Q E L Q A E E R M V I T V K I T	V V L I T
hkOC (2)	F A G A S - - -	I K I A P A E E R M V I T V K I T	V V L I T
hkOC (3)	L S S A E - - -	I T I K I A P A E E R M V I T V K I T	V V L I T
hkOC (4)	D Y N A S V S V P D S S G P E R I L S A D I E T D R V V I T	V V L I T	
hnRNPK (1)	N T Q T T - - -	I K L F Q E C C P H S T D R V V I T	V V L I T
hnRNPK (2)	E S G A S - - -	I K I D - E P L E G S E D R V V I T	V V L I T
hnRNPK (3)	V P G V T A - - -	I D L D E D T C T F H I Y G	V V L I T
FMRP (1)	K S G V V R - - -	V E A E N E K N V P Q	V V L I T
FMRP (2)			

Consensus:

I	I	I
L	L	V
V	V	V

+
+ [D]n[D]n[D]n[D]n [D]n[D]n[D]n[D]n [D]n[D]n[D]n[D]n

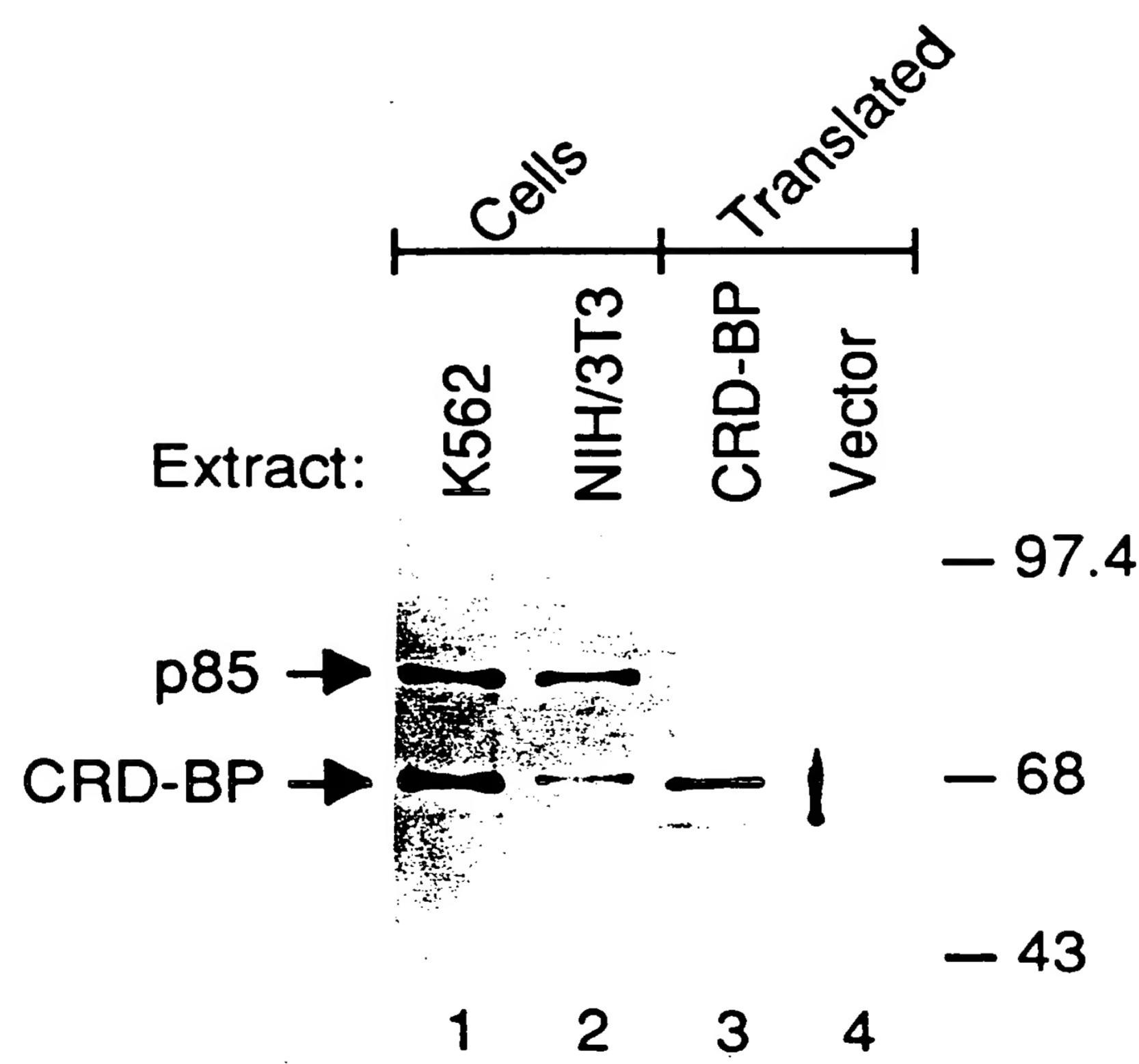


FIG. 3

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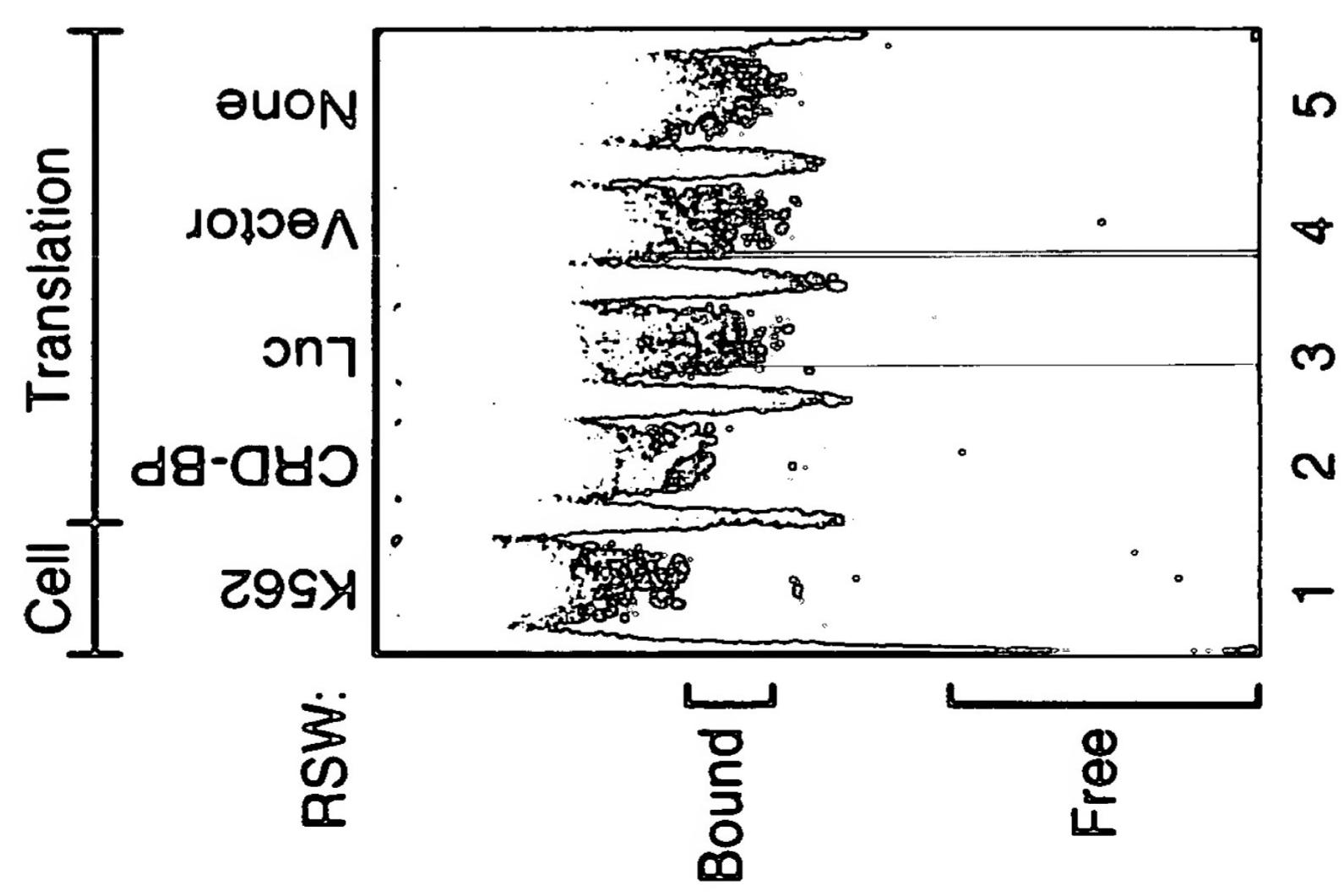


FIG. 4A

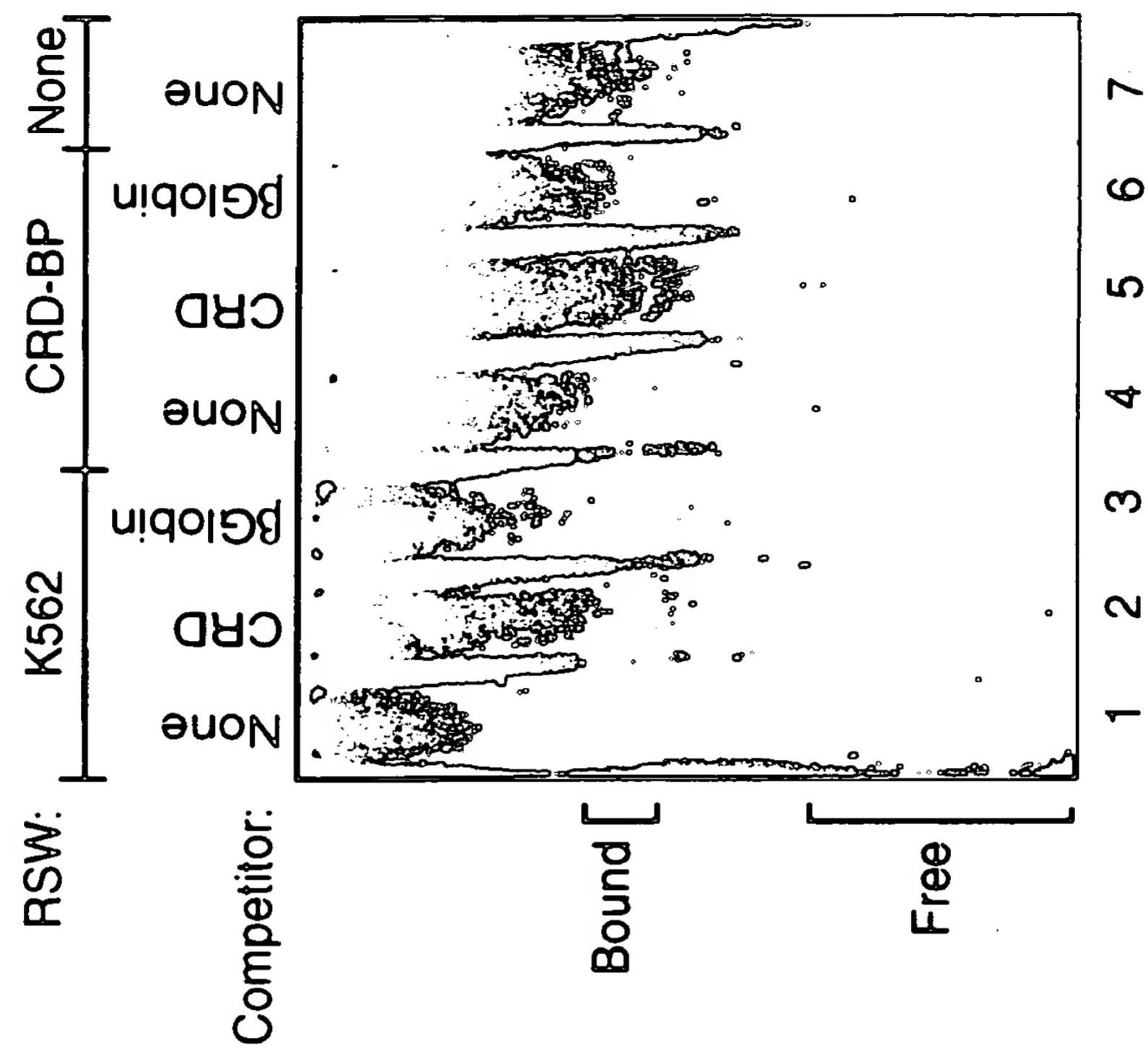
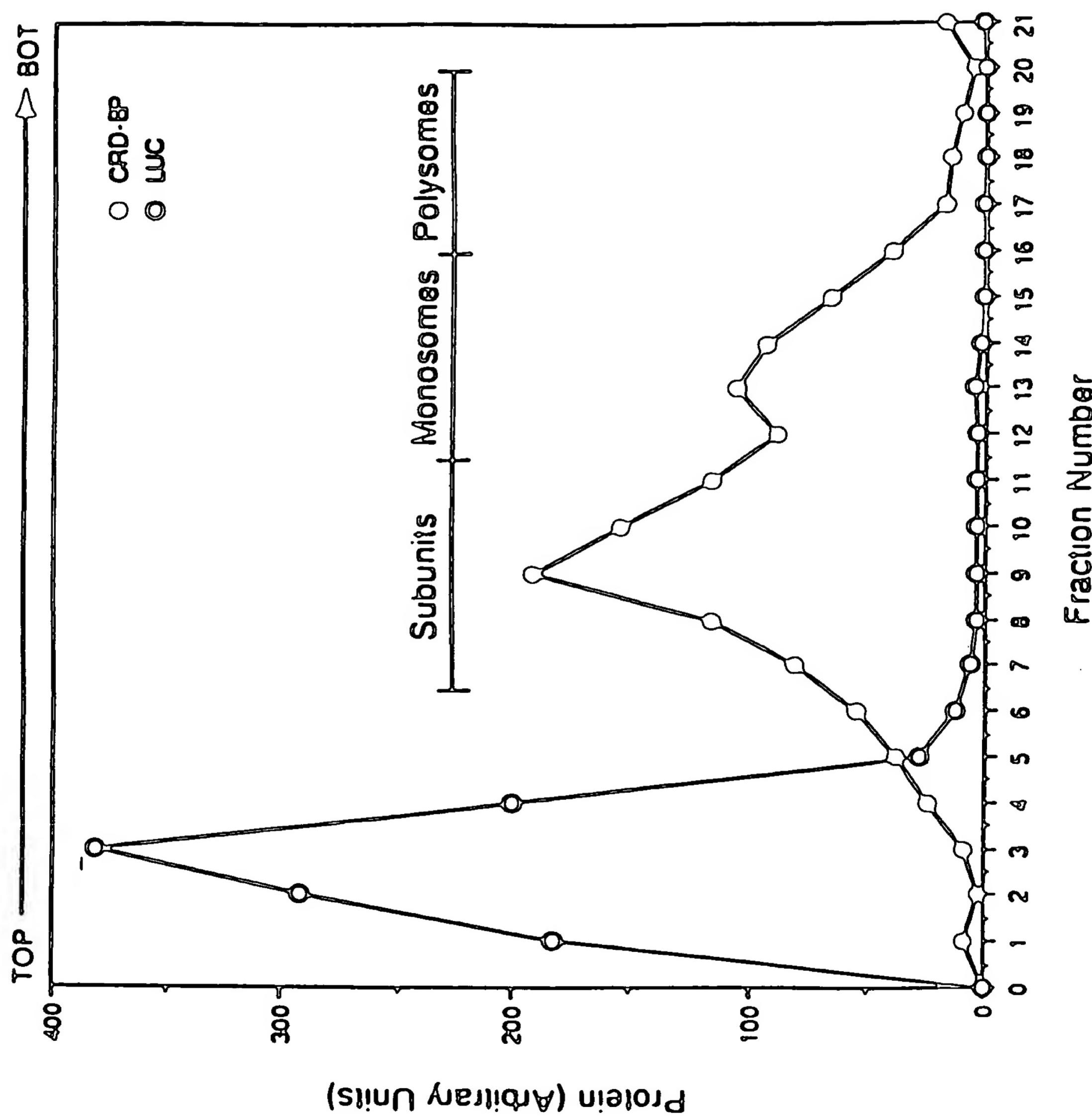


FIG. 4B

FIG. 5



the first day of January, 1863, in the year of our Lord one thousand eight hundred and sixty-three.

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FIG. 6A

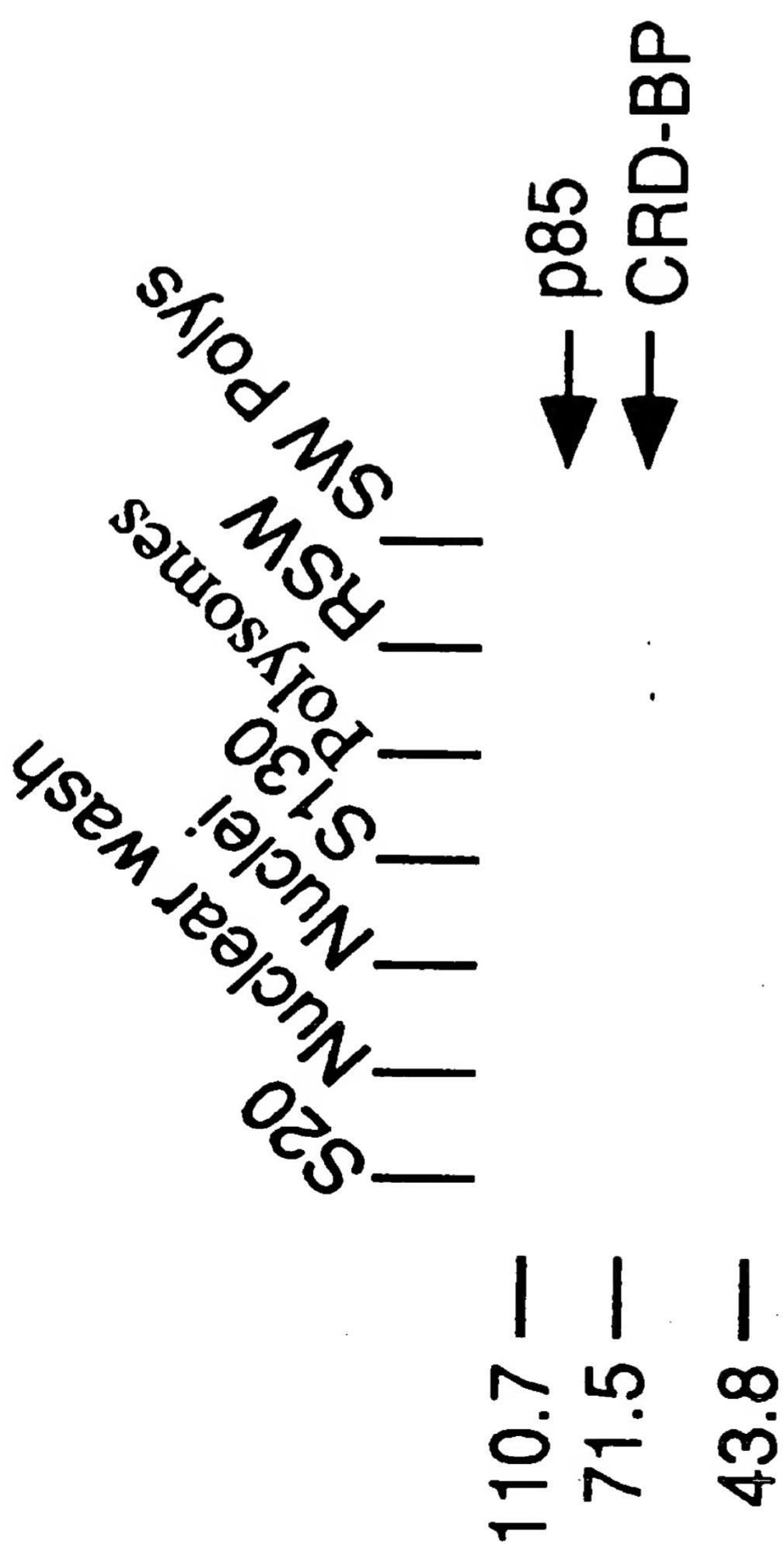


FIG. 6B

A vertical diagram of a HSP-90 pump assembly. At the top is a downward-pointing arrow labeled "HSP-90". Below the arrow is a cylindrical pump body with a ribbed middle section. A small vertical line extends from the right side of the pump body. At the bottom of the pump body is a flared base. To the left of the pump body is the number "110.7" and a short horizontal line. To the right is the number "715" and a short horizontal line.

1

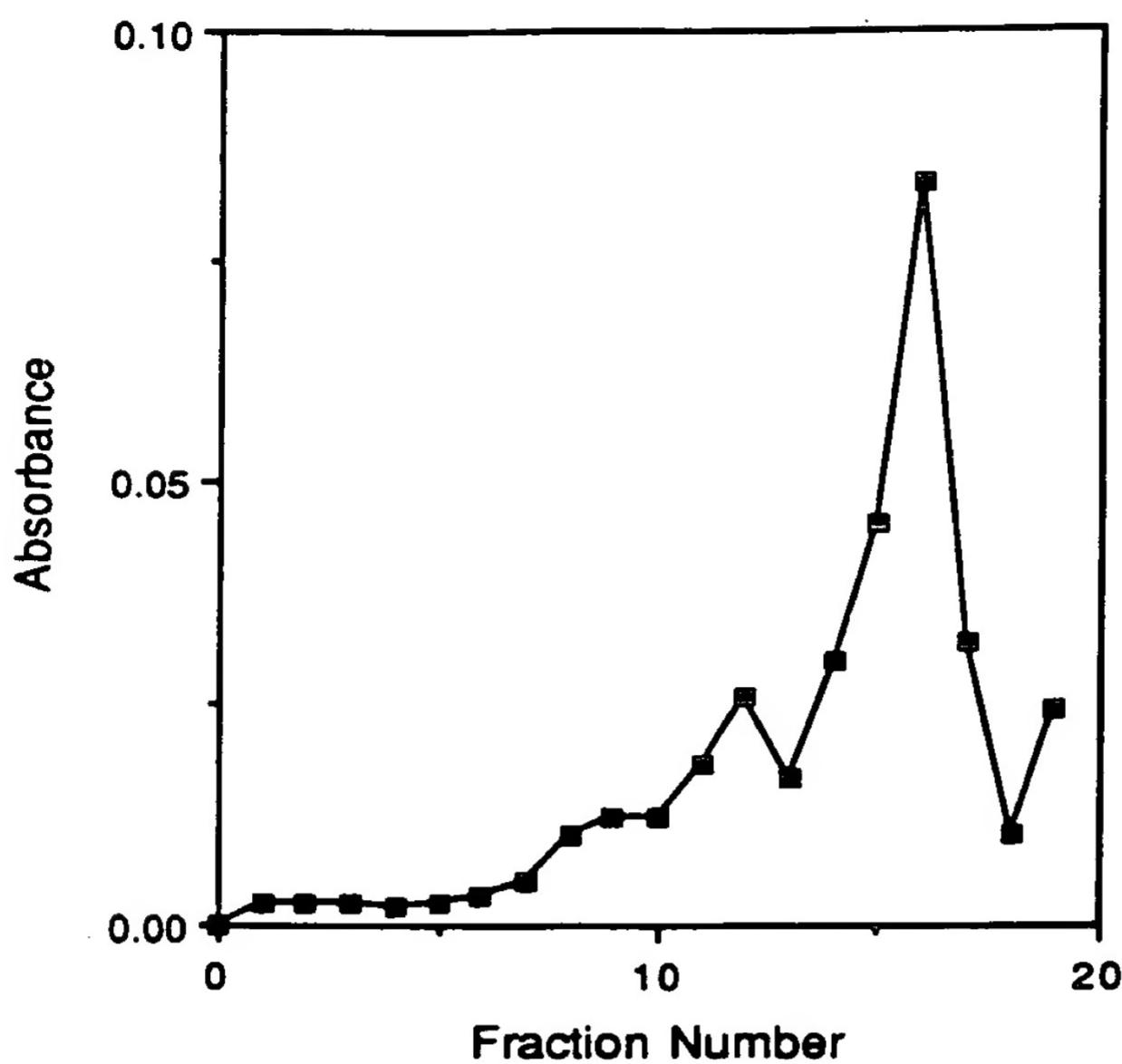


FIG. 7A

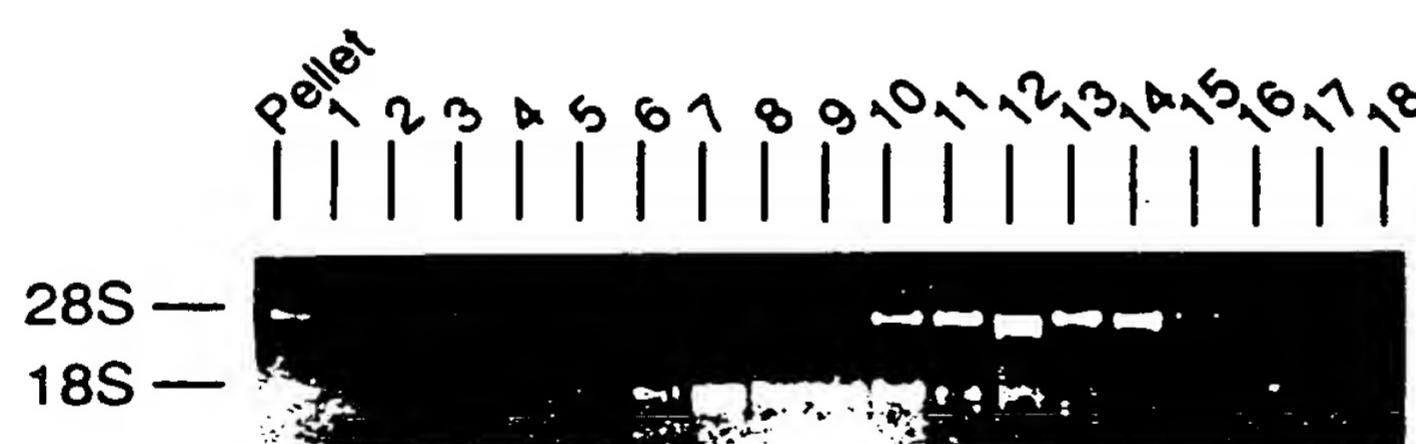


FIG. 7B

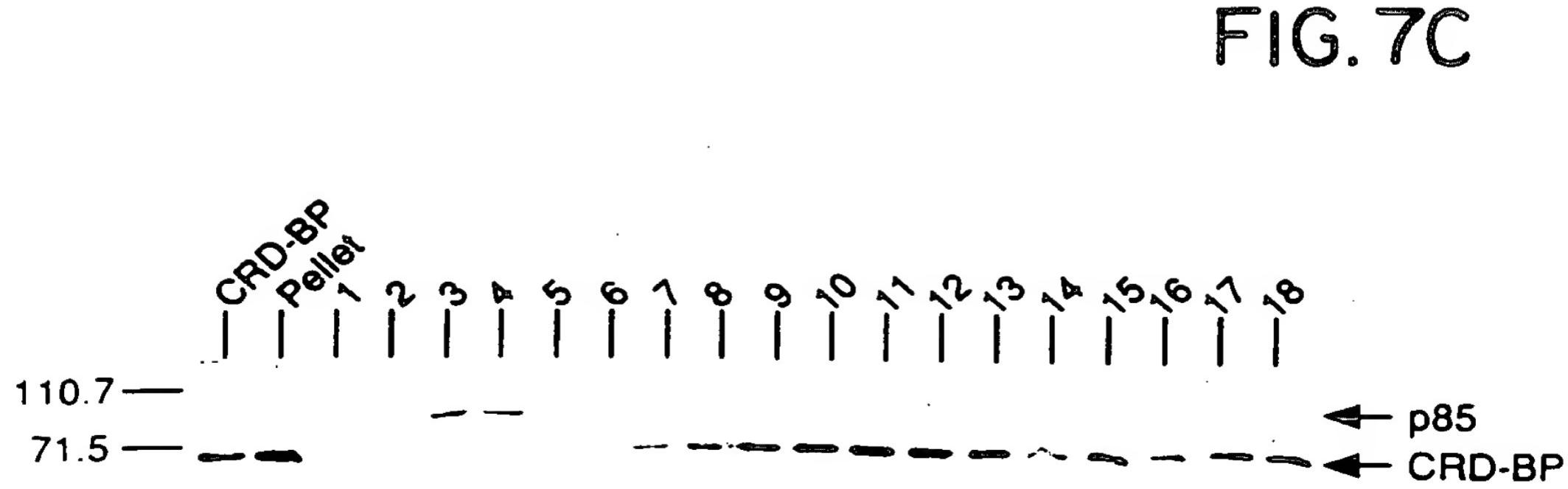


FIG. 7C

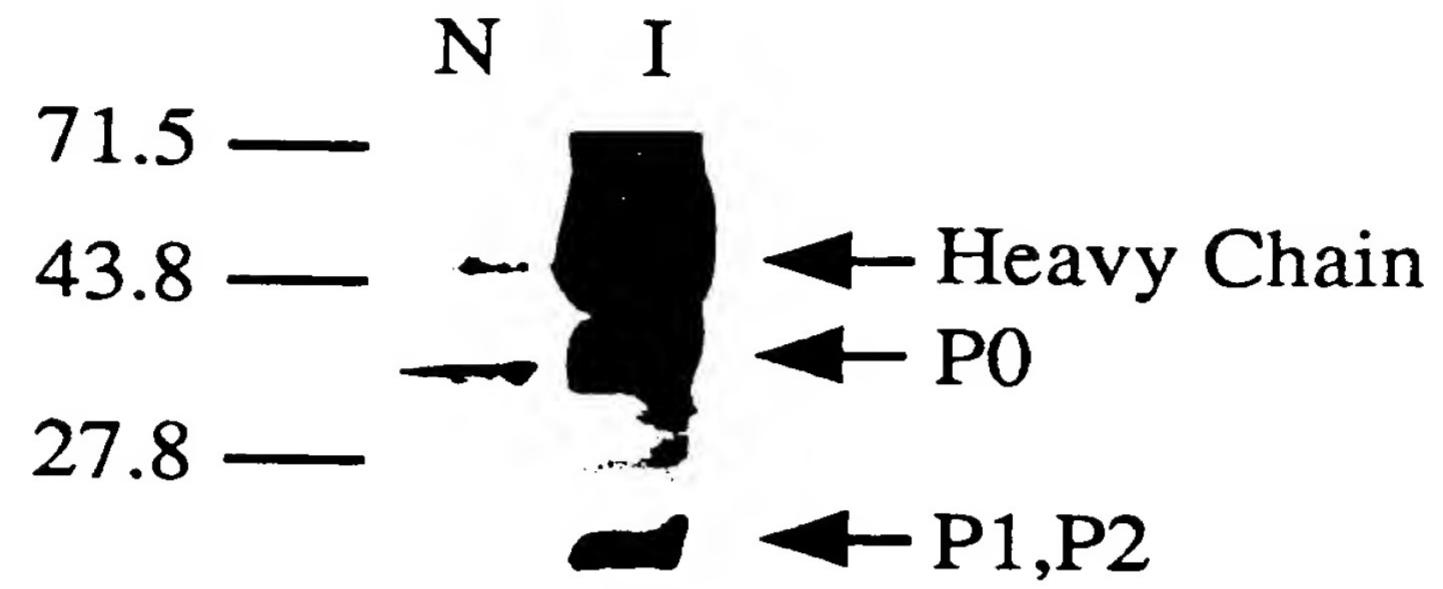


FIG. 8A

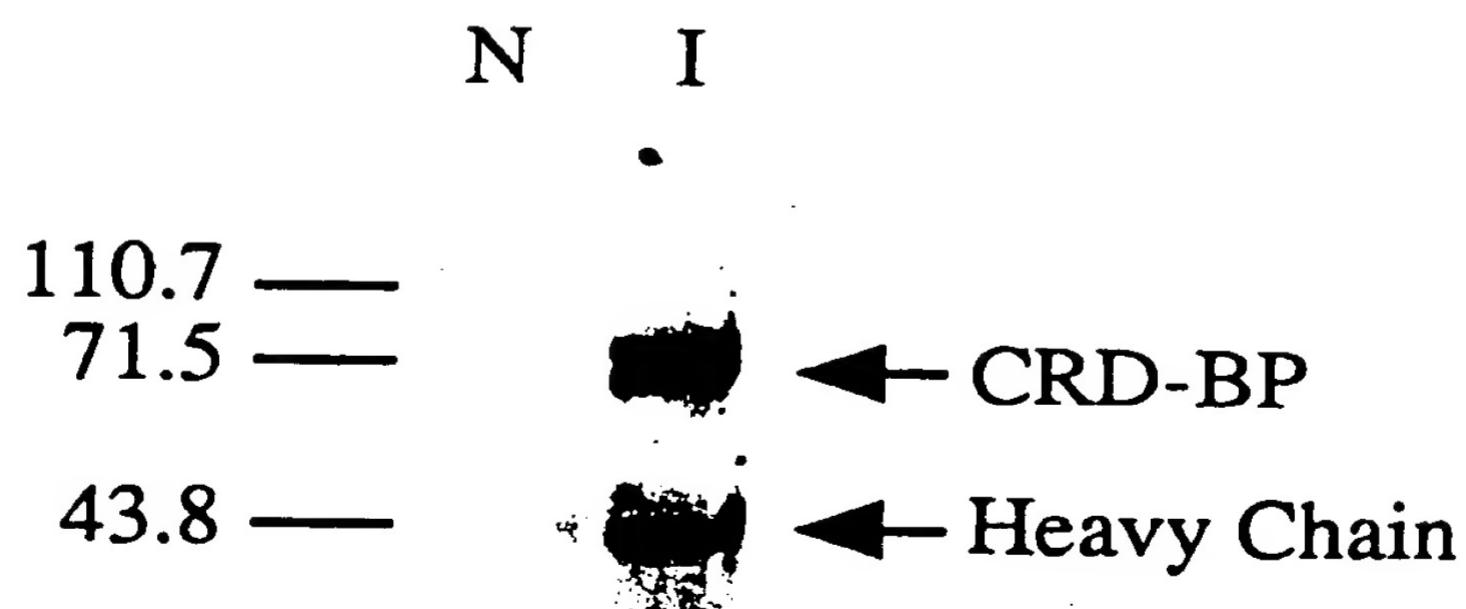


FIG. 8B